



AS85049/8 and MS3188A 90° EMI/RFI Environmental Backshell

CONNECTOR DESIGNATOR:

A	AS50151 Series AS34001 MIL-DTL-26482 Series II AS81703 Series III MIL-DTL-83723 Series I & III 40M39569, DEF 5326-3, EN 2997 EN 3646, ESC 10, ESC 11, LN 29504 NFC93422 Series HE302 PAN 6432-1, PAN 6432-2, PATT 602
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APPLICATION NOTES

- For complete dimensions see the applicable Military Specification.
- When maximum cable entry is exceeded, Style 2 will be supplied.
- Metric dimensions (mm) are in parentheses.
- Cable Range is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

Basic
Part Number

Dash Number
(Table II)

M85049/8 - 21 W

Finish / Material

- B** = Black Cadmium / Stainless Steel
- N** = Electroless Nickel / Aluminum
- S** = Passivated / Stainless Steel
- W** = 1,000 Hr. Cadmium Olive Drab over Electroless Nickel / Aluminum
- X** = Aluminum, Nickel Fluorocarbon Polymer
- Z** = Aluminum, Zinc-Nickel, Black
- XS** = Stainless Steel, Nickel Fluorocarbon Polymer
- ZS** = Stainless Steel, Zinc-Nickel, Black

Superseded PART NUMBER

MS3188A 21 C

Basic
Part No.

Dash
No.

Finish (Material is Aluminum Only)

- A** = Cadmium Olive Drab over Nickel
- C** = Cadmium Olive Drab
- N** = Electroless Nickel

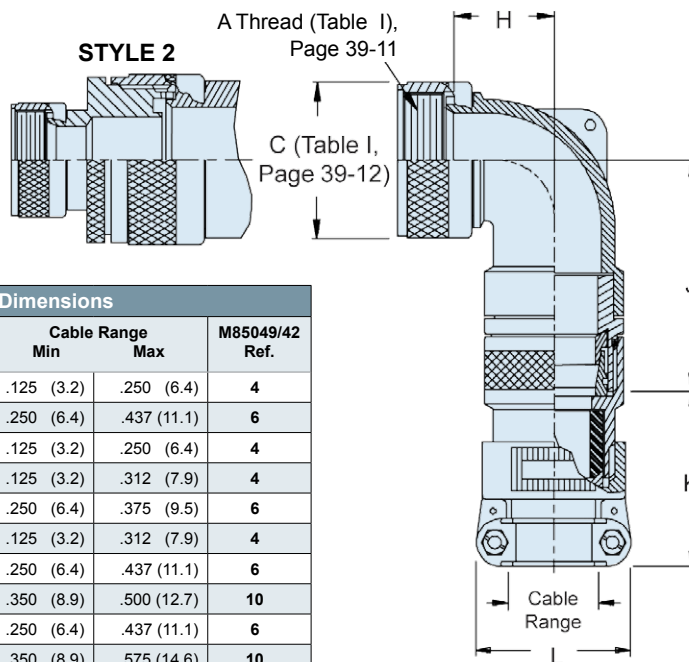


TABLE I: Dash Number, Cable Range and Dimensions

Dash No.	Shell Size	H Max	J Max	K Ref.	L Max	Cable Range Min	Cable Range Max	M85049/42 Ref.
1	3	.761 (19.3)	1.924 (48.9)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
2	3	1.511 (38.4)	1.444 (36.7)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
3	8	.666 (16.9)	1.324 (33.6)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.250 (6.4)	4
4	10	.761 (19.3)	2.044 (51.9)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
5	10	.761 (19.3)	1.444 (36.7)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.375 (9.5)	6
6	12	.766 (19.5)	2.064 (52.4)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
7	12	.766 (19.5)	2.064 (52.4)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
8	12	.766 (19.5)	1.459 (37.1)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.500 (12.7)	10
9	14	.866 (22.0)	2.134 (54.2)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
10	14	.866 (22.0)	1.779 (45.2)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.575 (14.6)	10
11	16	1.051 (26.7)	2.224 (56.5)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
12	16	1.051 (26.7)	1.869 (47.5)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.700 (17.8)	12
13	18	1.141 (29.0)	2.394 (60.8)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
14	18	1.141 (29.0)	2.044 (51.9)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.779 (19.8)	16
15	20	1.141 (29.0)	2.394 (60.8)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
16	20	1.141 (29.0)	2.044 (51.9)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.904 (23.0)	16
17	22	1.291 (32.8)	2.504 (63.6)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
18	22	1.291 (32.8)	2.149 (54.6)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.029 (26.1)	20
19	24	1.291 (32.8)	2.504 (63.6)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
20	24	1.291 (32.8)	2.149 (54.6)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.144 (29.1)	20
21	28	1.391 (35.3)	2.674 (67.9)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16

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AS85049/8 and MS3188A 90° EMI/RFI Environmental Backshell



TABLE I: Continued from Page 39-10

Dash No.	Shell Size	H Max	J Max	K Ref.	L Max	Cable Range		M85049/42 Ref.
						Min	Max	
22	28	1.391 (35.3)	2.319 (58.9)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
23	32	1.741 (44.2)	2.924 (74.3)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
24	32	1.741 (44.2)	2.924 (74.3)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
25	32	1.741 (44.2)	2.569 (65.3)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
26	36	1.941 (49.3)	2.894 (73.5)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
27	36	1.941 (49.3)	2.894 (73.5)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
28	36	1.941 (49.3)	2.539 (64.5)	2.600 (66.0)	3.020 (76.7)	1.437 (36.5)	1.840 (46.7)	32
29	40	2.691 (68.4)	2.894 (73.5)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
30	40	2.691 (68.4)	2.894 (73.5)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
31	40	2.691 (68.4)	2.539 (64.5)	2.600 (66.0)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
32	44	2.691 (68.4)	2.894 (73.5)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
33	44	2.691 (68.4)	2.894 (73.5)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
34	44	2.691 (68.4)	2.539 (64.5)	2.600 (66.0)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
35	48	2.691 (68.4)	2.894 (73.5)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
36	48	2.691 (68.4)	2.894 (73.5)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
37	48	2.691 (68.4)	2.539 (64.5)	2.600 (66.0)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)	32
38	61	1.291 (32.8)	2.504 (63.6)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
39	61	1.291 (32.8)	2.149 (54.6)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.184 (30.1)	20
40	16	1.051 (26.7)	2.224 (56.5)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
41	18	1.141 (29.0)	2.394 (60.8)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
42	18	1.141 (29.0)	2.394 (60.8)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
43	20	1.141 (29.0)	2.394 (60.8)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
44	22	1.291 (32.8)	2.504 (63.6)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	4
45	22	1.291 (32.8)	2.504 (63.6)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
46	24	1.291 (32.8)	2.504 (63.6)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
47	36	1.941 (49.3)	2.894 (73.5)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
48	40	1.941 (49.3)	2.894 (73.5)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
49*	10	1.516 (38.5)	2.064 (52.4)	1.544 (39.2)	1.145 (29.1)	.250 (6.4)	.437 (11.1)	6
50*	14	1.891 (48.0)	2.394 (60.8)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
51*	16	2.041 (51.8)	2.504 (63.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
52	18	1.141 (29.0)	2.394 (60.8)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
53	61	1.291 (32.8)	2.149 (54.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
54	20	1.141 (29.0)	2.394 (60.8)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
55*	20	2.141 (54.4)	2.674 (67.9)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
56	22	1.291 (32.8)	2.504 (63.6)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
57	22	1.291 (32.8)	2.504 (63.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
58*	22	2.141 (54.4)	2.674 (67.9)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
59	24	1.291 (32.8)	2.504 (63.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
60	28	1.391 (35.3)	2.674 (67.9)	1.916 (48.7)	1.551 (39.4)	.500 (12.7)	.750 (19.1)	12
61	28	1.391 (35.3)	2.674 (67.9)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
62	32	1.741 (44.2)	2.924 (74.3)	2.024 (51.4)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)	24
63	36	1.941 (49.3)	2.894 (73.5)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
64	36	1.941 (49.3)	2.894 (73.5)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
65	40	2.691 (68.4)	2.894 (73.5)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
66	40	2.691 (68.4)	2.894 (73.5)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
67	44	2.691 (68.4)	2.894 (73.5)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
68	44	2.691 (68.4)	2.894 (73.5)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
69	48	2.691 (68.4)	2.894 (73.5)	2.230 (56.6)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)	20
70	48	2.691 (68.4)	2.894 (73.5)	2.550 (64.8)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)	28
71*	12	1.811 (46.0)	2.224 (56.5)	1.844 (46.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)	10
72*	18	2.051 (52.1)	2.504 (63.6)	2.000 (50.8)	1.770 (45.0)	.625 (15.9)	.937 (23.8)	16
73*	24	2.151 (54.6)	2.674 (67.9)	2.230 (56.6)	2.116 (53.7)	.875 (22.2)	1.250 (31.8)	20
74	14	.866 (22.0)	2.134 (54.2)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	04
75	16	1.051 (26.7)	2.224 (56.5)	1.544 (39.2)	.957 (24.3)	.125 (3.2)	.312 (7.9)	04

* Denotes Style 2